

ABSTRACT

A device for individually processing each color component of a serial analog signal from a color scanner. The device includes a multiple-channel-image-capture circuit comprising an analog front end/digitizer having a plurality of channels operable to process an analog-color signal with one channel for each color component of the analog-color signal, a register, and an analog-to-digital converter operable to output a digital signal responsive to the analog-color signal, and a controller operable to control the color component processing by the plurality of input channels such that each color component of a serial analog-color signal is individually processed. Each input channel of the analog front end/digitizer may include a programmable circuit operable to modify a color component of the color signal in response to a value stored in the register related to the color component.